

UNITED STATES PATENT & TRADEMARK OFFICE

Examiner: KOSSON, Rosanne Art Unit: 1652

Re: Application of: CHOE, Mu-Hyeon, *et al.*

Serial No.: 10/562,627

Filed: December 22, 2005

For: **THE DIMER OF CHIMERIC
RECOMBINANT BINDING DOMAIN-
FUNCTIONAL GROUP FUSION FORMED
VIA DISULFIDE-BOND-BRIDGE AND THE
PROCESSES FOR PRODUCING THE SAME**

Confirmation No.: 6450

RESPONSECommissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

April 28, 2008

Sir:

Responsive to the Office Action dated January 29, 2008, the following remarks are made:

A. Restriction Requirement & Election of Species Requirement

The Examiner required Applicants to elect one of the two fusion proteins recited in claim 30, as follows: (1) E-L-F or (2) F-L-E. The Examiner indicated that "E is an enzyme (the elected binding domain), L is the linker (the polypeptide having at least one free cysteine in the monomer, located adjacent to or up to 45 amino acids away from the enzyme) and F is the functional domain (an antibody containing at least the Fab portion). In the first protein, the enzyme is N-terminal, while, in the second protein, the antibody (or functional domain) is N-terminal". See the third paragraph on page 2 of the Office Action.

Applicants believe that the Examiner meant to mean that "E" represents a binding domain such as an antibody, i.e., Fab, "L" represents a linker such as an extension peptide, and "F" represents a functional domain such as an enzyme. Applicants respectfully request clarification.